

# Tensor Analysis (Lecture- 1)

## Introduction to Tensors

### Complete Note Based Discussion

❖ Again  $x^i$ 's are function of  $\bar{x}^a$ , *What is Tensors ?*

$$\text{So, } \frac{dx^i}{dx^j} = \frac{\partial x^i}{\partial \bar{x}^a} \frac{\partial \bar{x}^a}{\partial x^j}$$

*What do you mean by Transformation of*

or,  $\delta_j^i = \frac{\partial x^i}{\partial \bar{x}^a} \frac{\partial \bar{x}^a}{\partial x^j} \Rightarrow$  Unbarred co-ordinate system *Co-ordinates ?*

Similarly in Barred Co-ordinate system,

*What is Einstein's Summation Convention ?*

*Representation of Kronecker Delta in Barred &*

$$\frac{\partial \bar{x}^a}{\partial x^i} \frac{\partial x^i}{\partial \bar{x}^a}$$

*Unbarred Co-ordinate System.*



# Tensor Analysis

**Christian Drosten**



## Tensor Analysis:

## Tensor Analysis Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Tensor Analysis**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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